

I hereby certify that on July 25, 2011, which is the date I am signing this certificate, I am transmitting this correspondence and all identified attachments electronically to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

/Grace Kim/

Grace Kim

Applicant: Keun Ho CHUN et al.

Serial No.: 10/684,346

Filed: October 11, 2003

Confirmation No. 9221

Title: **TARGET DETECTION SYSTEM  
HAVING A CONFORMATIONALLY  
SENSITIVE PROBE COMPRISING A  
NUCLEIC ACID BASED SIGNAL  
TRANSDUCER**

Examiner: Salmon, Katherine D

Art Unit: 1634

Attorney Docket No.: 12090-05CIP2

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached forms PTO/SB/08A and PTO/SB/08B (substitutes for form 1449/PTO) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Copies of the cited documents are enclosed.

### U.S. Patent Documents:

US 2001/0055773, Jayasena and Gold, December 27, 2001
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### Non-Patent Literatures:

Langer et al, "Enzymatic Synthesis of Biotin-labeled Polynucleotides: Novel Nucleic Acid Affinity Probes," Proc. Natl. Acad. Sci. USA, November 1981, 78(11):6633-6637
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Telser et al, "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels
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by Thermodynamic and Optical Spectroscopic Measurements,” J. Am. Chem. Soc., 1989, 111:6966-6976
Le Brun et al, “Simple Chemical Synthesis and Hybridization Properties of Non-Radioactive DNA Probes,” Biochimie 71, 1989, 319-324
March, Jerry, “Advanced Organic Chemistry,” Reactions, Mechanisms, and Structure, Third Edition, 1985, 18-19
Morris et al, “Biotin-Streptavidin-Labeled Oligonucleotides as Probes of Helicase Mechanisms,” Academic Press, 2001, 23:149-159

It is respectfully requested that the Examiner indicate consideration of the cited references by returning copies of the attached forms [PTO/SB/08A and/or PTO/SB/08B] (substitutes for form 1449/PTO) with initials or other appropriate marks, and that the references be made of record as cited references in the application.

Since the present Information Disclosure Statement is being submitted with a Request for Continued Examination (RCE), it is believed that no fee is required for this submission.

The Commissioner is authorized to charge JHK Law’s Deposit Account No. **502486** for any fees required under 37 CFR §§ 1.16 and 1.17 and to credit any overpayment to said Deposit Account No. **502486**.

Respectfully submitted,

JHK Law

Dated: July 25, 2011

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